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Entrez	☐1: J Med Virol 1994 Apr;42(4):374-9 Related Articles, Links
PubMed	Detection of the putative E2 protein of hepatitis C virus in human liver.
PubMed	Nakamoto Y, Kaneko S, Honda M, Unoura M, Cheong J, Harada A, Matsushima K, Kobayashi K, Murakami S.
Services	First Department of Internal Medicine, Faculty of Medicine, Kanazawa University, Ishikawa, Japan.
Related Resources	The question was asked whether a predicted envelope protein, considered to be processed from the polyprotein precursor encoded by the putative E2/NS1 region of the hepatitis C virus (HCV) genome, may be observed in HCV-infected humans. Two polyclonal antibodies against recombinant E2/NS1 proteins were prepared and their reactivity tested against liver extracts from HCV-infected patients by immunoblotting analysis. A band corresponding to a size of 44 kDa was detected in liver extracts from patients who were positive for the HCV-specific antibody anti-C100-3 but not in liver extracts from patients who did not have anti-C100-3 antibody. Additionally, no band was detected using preimmune sera or antisera which had been preabsorbed with recombinant E2/NS1 proteins. Deglycosylation studies demonstrated that the 44 kDa protein was a glycosylated form of a 38 kDa protein which corresponds to the predicted molecular weight of the putative E2/NS1 protein. These results suggest that the 44 kDa protein is a product of the E2/NS1 region. Frequent observation of the 44 kDa band in cases of chronic active hepatitis C suggests a correlation between the expression of this protein and the progression of hepatitis.
	PMID: 7519251 [PubMed - indexed for MEDLINE]

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PubMed	Hypervariable 5'-terminus of hepatitis C virus E2/NS1 encodes antigenically distinct variants.
PubMed	Lesniewski RR, Boardway KM, Casey JM, Desai SM, Devare SG, Leung TK, Mushahwar IK.
Services	Experimental Biology Research, Abbott Laboratories, North Chicago, IL 60064.
Related Resources	Synthetic peptides representing sequences encoded at the 5'-terminus of E2/NS1 in hepatitis C virus (HCV) were constructed. Peptides synthesized based on the sequences of four distinct HCV isolates were used to develop enzyme immunoassays (EIAs) for detection of antibodies in chronic HCV patients and in HCV-infected plasma donors. HCV sequence-specific antibodies were detected among patients with chronic HCV from the United States and Italy at frequencies of 22.2% and 55.8%, respectively. Similarly, sequence-specific antibodies were detected in 54.6% of U.S. and 55.6% of Japanese commercial plasma donors who had previous evidence of HCV exposure. Our data support earlier findings of geographic variability among HCV variants. The region encoded by amino acids (aa) 380-436 was shown to contain at least one variant-specific and one conserved epitope. The data further indicate that a majority of patients chronically infected with HCV (58.1% U.S., 68.8% Italy) have antibodies directed to the 5'-terminus of the E2/NS1 gene product. We conclude that genotypic variability within the E2/NS1 gene of HCV results in antigenically distinct variants.
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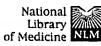




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Establishment of a cell line constitutively expressing E2 glycoprotein of hepatitis C virus and humoral response of hepatitis C patients to the expressed protein. Harada S, Suzuki R, Ando A, Watanabe Y, Yagi S, Miyamura T, Saito I. Department of Medical Entomology, National Institute of Health, Tokyo, Japan. A Chinese hamster ovary cell line was established which abundantly expresses the second envelope protein (E2) of hepatitis C virus under the control of an exogenous promoter. The expressed E2 protein was found to be a glycoprotein of 58 kDa by immunoprecipitation with sera from patients that had chronic hepatitis C. Using this cell line as antigen in immunofluorescence tests, as high as 93% of patients with non-A non-B hepatitis had antibodies against E2 protein. In Western blots using SDS-denatured E2 protein, however, the detectability of the antibody was drastically reduced to 30%. Immunoprecipitation assays and ELISA, using both native and denatured E2 protein, revealed that antibodies to E2 protein were present in most of the chronic hepatitis C patients and that they reacted only to the native forms.		∠Limi	ts Previe		9	The second places and larger than 1979	Details		
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